



# Zone Control Panels

## The Original “Boiler Room in a Box”



### 4WE

Single Zone and Multi temperature mixing and distribution panels for radiant and other hydronic systems.

#### Application

**4WE Single outlet** - The 4WE single outlet unit provides one outlet of mixed water and one outlet of high temperature water. Other than zone valves, the single outlet unit has all the features of the 4WE multi zone units. The 4WE single unit was designed to feed field supplied and installed remote zones.

**4WE Multi zone** - The 4WE multi zone panel is the heart of our modular system. It is used in applications requiring up to 5 Zones of mixed water applications. Each panel is also equipped with a high temperature outlet used for supplying indirect water heaters, fan coils etc. The 4WE is rated at 100 mbh based on a 20 degree F, Delta T.

#### Function

As a stand alone panel the 4WE multi zone unit provides up to 5 zones of mixed water, each having a capacity of 2.5 gpm. Flow to each zone is controlled by a slow acting zone valve which eliminates the water hammer effect commonly experienced with quick acting valves. Each zone is capable of feeding a remote manifold with up to 5 loops of 250 feet (per loop)\*.

The 4WE is supplied with 1 Danfoss RET thermostat per mixed zone. These thermostats are field wired to the 4WE terminal strip which is factory wired into the 6 zone switching relay which is standard on the 4WE. A pressure bypass valve provides a minimum flow through the panel when there is a limited demand for heat. Mixed water is provided by a 4 way brass mixing valve which is controlled by a Danfoss ECL outdoor reset control. The unit's high temperature outlet by passes the 4 way mixing valve to deliver water at boiler discharge temperature. This outlet can be equipped with a factory installed zone valve wired to the switching relay which will allow this to become the priority zone.

#### Options

The 4WE multi zone unit can be supplied with a combination of standard zone valves (2.5 gpm) or high capacity zone valves (3.5 gpm) - refer to the chart for allowable combinations. Total flow must not exceed 10 gpm.

#### Construction

All the 4WE's components are contained in a wall mounted, powder coated steel

enclosure. Each component has been selected to provide efficient and reliable operation. Every 4WE panel is factory leak tested prior to leaving the factory. All electrical and mechanical components are thoroughly inspected and function tested.

#### FEATURES AND BENEFITS

- **Pre-Engineered**  
Designed according to established hydronic heating principles, guaranteeing reliable performance.
- **Pre-Wired and Tested**  
Ensures trouble free start ups.
- **100,000 BTU/hr** nominal output of panel (20FT).
- **Includes a 4-way rotary mixing valve** controlled by an outdoor reset controller.
- **Lightweight Powder Coated Cover**  
Provides protection from injury and discourages unwanted tampering.
- **Compact**  
Minimum space required for installation.
- **Certified Performance**  
Manufactured to conform to Can/CAS C22.2, UL 508

\* Contact the factory for assistance in calculating other configurations.

